

## VL-2000/VP-2000 Semi-Conductor Parts List

FCC ID: K6620321X70

**VL-2000**

Parts Code	Device Name	Description	Oty.	Val
<b>PA-UNIT</b>				
Q1,Q2,Q3,Q4	FET	VRF2933	8	
U1	IC	TL431C	2	
U2	IC	NJM78L08A	2	
IC51	IC	LM35DZ	2	
IC52	IC	NJM3404AM	2	
ISO,ISO2,ISO3	PhotoCouplor	TLP521-1	6	
Q5	Transistor	2SC1815GR	2	
D1,D2,D3,D4	Diode	1S2076A	8	
D5,D6	Diode	SF34	4	
LED1	LED	TLRE50T(F)	2	
RT1	THERMISTOR	158-402-83007	2	
<b>CPU-UNIT</b>				
U30	EEPROM	24LC256-I/STG	1	
U14,U18	IC	NJM7805A	2	
U15,U36	IC	AD5262BRUZ20	2	
U8	IC	AD5318ARUZ	1	
D5,D7,D8	Diode	1S2076A	3	
D2,D3,D4,D6,D9,D10,D12,D13,D14,D15,D16,D18,D19,D20,D21,D22,D23,D24,D28,D29	Diode	1SS352	20	
Q1	Monolithic AMP	ERA-5+	1	
D1	LED	TPL-930B-TB	1	
U10	RS232-IC	MAX1406CWE	1	
U31,U32	IC	NJU3716M	2	
U1,U24	IC	NJU3754V	2	
U13	IC	LF347M	1	
U3,U6,U12	IC	NJM2734V	3	
OPT6	Photo-Moss	AQZ205D	1	
OPT4,OPT5	Photo-Moss	G3VM351A	2	
OPT1,OPT2,OPT3 OPT7,OPT8,OPT10	PhotoCouplor	TLP621(GR)	6	
OPT9	Photo-Moss	G3VM353A	1	
U7	PIC IC	PIC12F683-I/P	1	
U5	PIC IC	PIC18F8722-I/P	1	
U11,U16,U17,U19,U20, U21,U23,U26,U27,U28, U37,U39,U40,U41	Transistor	RN1101F-TE85L,F	14	
U38	Reset IC	TCM809JVLB713	1	
U33,U34,U35	IC	TD62083AFNG	3	
U4	IC	TL431CLP	1	
U2	IC	TC74VHCT14AF	1	
<b>ATU_CPU UNIT</b>				
U8	PIC IC	18F8722-I/PT	1	
U10,U11	EEPROM	24LC256-I/ST	2	
U5	IC	TA7805AF	1	
U7	IC	NJM79L05UA	1	
U3	IC	AD5262BRUZ20	1	
U6	IC	MAX1406CWE	1	
U1	IC	LMV324MT	1	
U12	Reset IC	TCM809JVLB713	1	
D1,D2,D3	LED	SLP-278B	3	
U2,U4,U9	IC	TD62083AF	3	

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<b>ATU_NETWORK UNIT</b>				
D17,D18,D19,D20	Diode	1N5711	4	
D21,D22	Diode	1N4002	2	
<b>LPF UNIT</b>				
D1-D8	Diode	1N4002	8	
<b>DISPLAY UNIT</b>				
U5	IC	ADG451BR	1	
LP1-LP4	LED	GM5BW01300A	4	
D1,D2,D3,D4,D5,D6,D7, D8,D9,D10,D11,D12,D 13,D14,D15,D16,D17,D 18,D19,D20,D21,D22,D 23,D24,D25,D26,D27,D 29	LED	SML-310VTT86	28	
U11,U12	IC	RN1423	2	
U6	IC	NJU3714V	1	
U3	IC	NJU3716M	1	
U2,U4	IC	NJU3754V	2	
U1	IC	NJM3404AV	1	
<b>9TR UNIT</b>				
D1-D4	Diode	1N5711	4	
D5-D21	Diode	1N4002	19	
<b>ATT UNIT</b>				
D1	Diode	1N4002	1	
<b>COMB UNIT</b>				
D1,D2	Diode	1N5711	2	
<b>VDD UNIT</b>				
U2	IC	PIC12F683-I/P	1	
U1	IC	78L05	1	
Q1	FET	2SJ504	1	
Q2	Transistor	2SC1815	1	
D1-D4	Diode	CMS15	4	
D5	LED	TPL-930B-TB	1	

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<b>DC CONT UNIT</b>				
U1	PIC IC	PIC16F88-I/P	1	
U2	IC	78L05	1	
U3	IC	LM35DT	1	
Q3	MOS-FET	2SJ504	1	
Q4	Transistor	2SC1815	1	
Q1,Q2,Q6	PhotoCouplor	TLP521-1	3	
Q5	PhotoCouplor	TLP521-2	1	
D1,D4,D5,D6,D7,D8	Diode	1S2076A	6	
D3	Diode	HZ5C1	1	
D9,D10	Diode	CMS15	2	
LED1	LED	TPL-930B-TB	1	
<b>SELECT UNIT</b>				
D1	Diode	1S2076A	1	
ZNR1	Varistor	ERZV20D471	1	
<b>PWM_FAN_CARL UNIT</b>				
U2	PIC IC	PIC12F683-I/P	1	
U1	IC	78L05	1	
U3	IC	LM35D	1	
Q1	MOS-FET	2SJ504	1	
Q2	Transistor	2SC1815	1	
D1,D2,D3,D4	Diode	CMS15	3	
D4	LED	TPL-930B-TB	1	